

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P238087

Luminaire Tested: **PRS640D010-S6M24-64SNDC-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-10)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-64SNDC-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4064.7 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.86
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

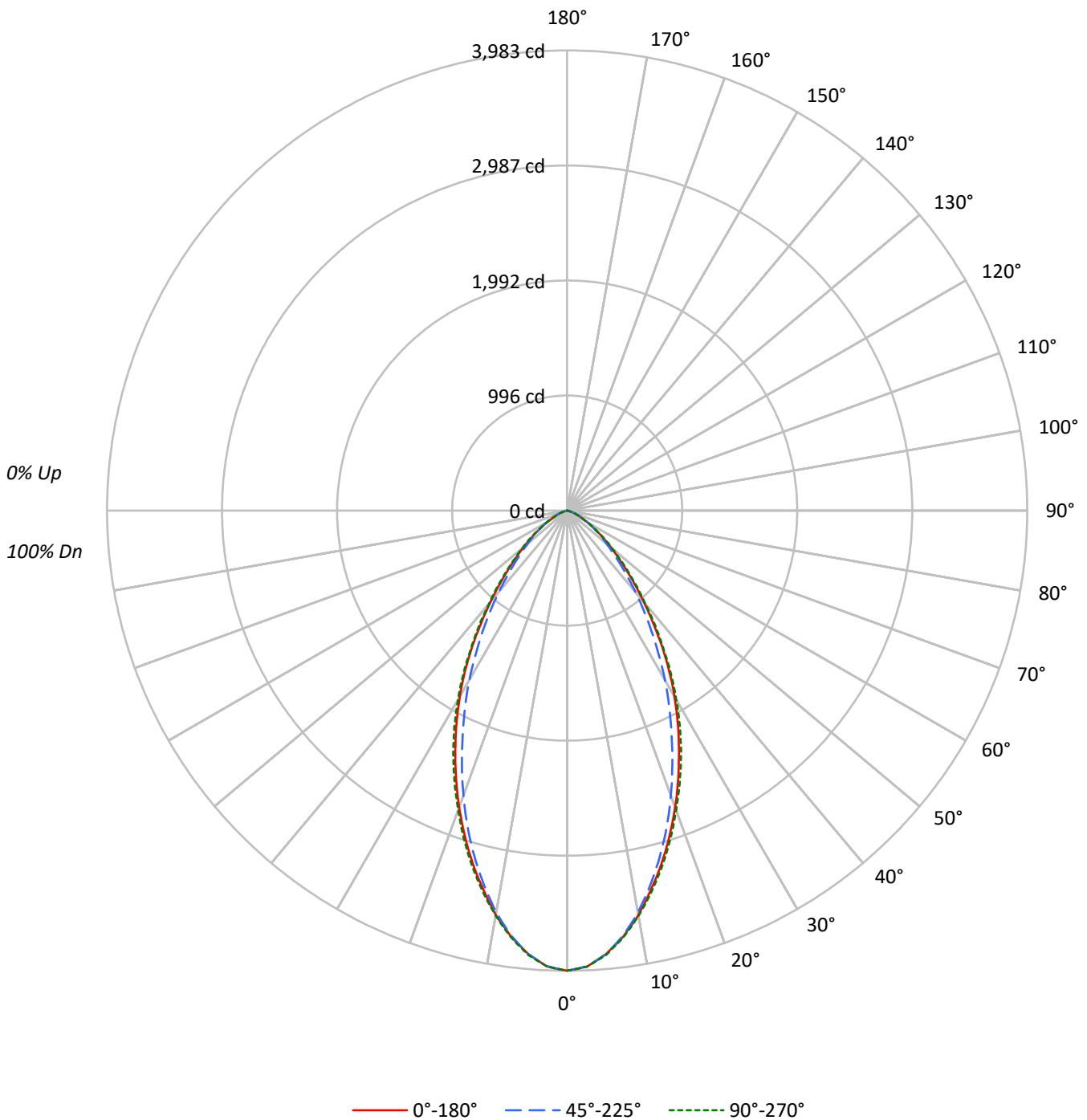
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238087

CATALOG NUMBER: PRS640D010-S6M24-64SNDC-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P238087

CATALOG NUMBER: PRS640D010-S6M24-64SND-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83					83			
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75					75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68					68			
5	88	78	71	66	86	77	70	66	75	69	65	73	68	65	72	67	64	62					62			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	55	76	66	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	73	63	56	51	72	62	56	51	61	55	51	60	54	51	59	54	50	49					49			
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	171478	171478	171478
5°	166575	166575	166882
10°	155385	154445	155695
15°	140909	138199	141863
20°	125200	120293	126346
25°	108771	101645	110809
30°	92343	84175	93939
35°	75100	66837	76035
40°	58021	51596	59021
45°	43719	38933	45241
50°	33016	29667	34215
55°	23863	23060	24666
60°	16921	18454	17222
65°	11645	13468	11645
70°	7641	8988	7641
75°	3560	4159	3560
80°	0	0	0
85°	0	0	0



TEST NUMBER: P238087

CATALOG NUMBER: PRS640D010-S6M24-64SNDC-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.2	8.8
10°-20°	873.9	21.5
20°-30°	1016.6	25.0
30°-40°	840.9	20.7
40°-50°	530.5	13.1
50°-60°	288.7	7.1
60°-70°	126.8	3.1
70°-80°	29.1	0.7
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2248.7	55.3
0°-40°	3089.6	76.0
0°-60°	3908.8	96.2
0°-90°	4064.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4064.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3983	3983	3983	3983	3983	
5°	3854	3858	3854	3858	3861	358
15°	3161	3125	3100	3143	3183	882
25°	2290	2200	2140	2229	2332	1049
35°	1429	1322	1272	1343	1447	890
45°	718	661	639	672	743	563
55°	318	314	307	322	329	293
65°	114	125	132	125	114	118
75°	21	25	25	29	21	25
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P238087

CATALOG NUMBER: PRS640D010-S6M24-64SNDC-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3982.7	3982.7	3982.7	3982.7	3982.7
2.5°	3950.5	3947.0	3947.0	3950.5	3950.5
5°	3854.1	3857.7	3854.1	3857.7	3861.2
7.5°	3718.4	3714.8	3711.2	3721.9	3725.5
10°	3554.1	3543.3	3532.6	3550.5	3561.2
12.5°	3357.6	3339.7	3321.9	3350.5	3379.0
15°	3161.2	3125.4	3100.4	3143.3	3182.6
17.5°	2950.4	2904.0	2868.3	2918.3	2975.4
20°	2732.5	2671.8	2625.4	2686.1	2757.5
22.5°	2511.1	2436.1	2378.9	2457.5	2546.8
25°	2289.6	2200.3	2139.6	2228.9	2332.5
27.5°	2075.3	1971.7	1911.0	1996.7	2114.6
30°	1857.4	1750.2	1693.1	1778.8	1889.5
32.5°	1643.1	1535.9	1471.6	1557.4	1671.7
35°	1428.8	1321.6	1271.6	1343.0	1446.6
37.5°	1214.5	1125.2	1085.9	1146.6	1250.2
40°	1032.3	950.1	918.0	964.4	1050.1
42.5°	864.4	789.4	764.4	810.8	893.0
45°	718.0	660.8	639.4	671.5	743.0
47.5°	592.9	550.1	532.2	564.4	614.4
50°	492.9	460.8	442.9	467.9	510.8
52.5°	403.6	382.2	367.9	389.3	417.9
55°	317.9	314.3	307.2	321.5	328.6
57.5°	253.6	253.6	257.2	257.2	257.2
60°	196.5	203.6	214.3	207.2	200.0
62.5°	150.0	160.7	171.5	160.7	153.6
65°	114.3	125.0	132.2	125.0	114.3
67.5°	85.7	92.9	100.0	92.9	85.7
70°	60.7	67.9	71.4	67.9	60.7
72.5°	39.3	46.4	46.4	46.4	39.3
75°	21.4	25.0	25.0	28.6	21.4
77.5°	3.6	7.1	10.7	10.7	3.6
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)